

Config Tool Instruction

1 Connect sensor

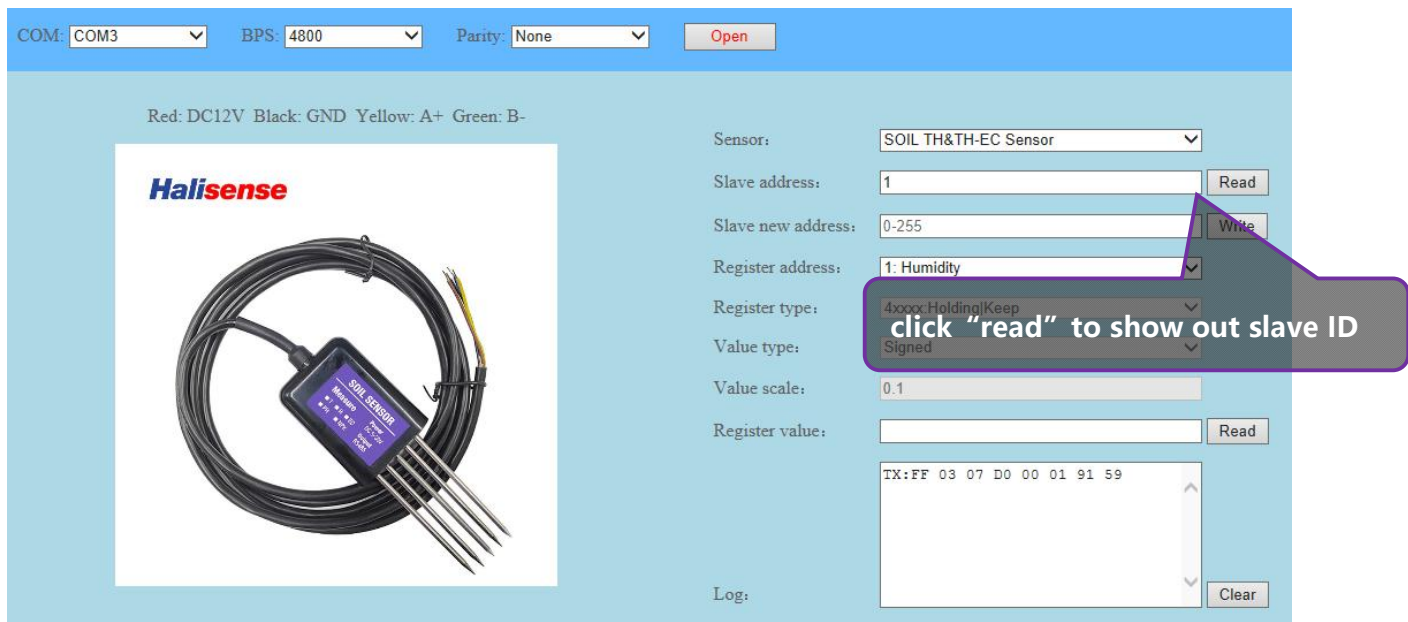
Connect sensor to PC by a RS485 to USB converter



The screenshot shows the Halisense Config Tool interface. At the top, there are dropdown menus for COM (COM3), BPS (4800), and Parity (None), followed by an 'Open' button. A callout box on the left points to the BPS dropdown and says '1. Choose correct com port Default BPS: 4800'. Another callout box on the right points to the 'Open' button and says '2. open com port'. The main area on the right contains fields for Sensor (SOIL TH&TH-EC Sensor), Slave address (0-255), Slave new address (0-255), Register address (1: Humidity), Register type (4xxxx: Holding|Keep), Value type (Signed), Value scale (0.1), and Register value. There are 'Read' and 'Write' buttons next to the Slave address and Slave new address fields, and a 'Read' button next to the Register value field. A 'Log' section at the bottom right has a text area and a 'Clear' button. On the left, there is an image of the sensor with a callout box that says 'Red: DC12V Black: GND Yellow: A+ Green: B-'.

2 Read value

2.1 read ID




The screenshot shows the Halisense Config Tool interface with the 'Open' button highlighted. A callout box on the right points to the 'Read' button next to the Slave address field and says 'click "read" to show out slave ID'. The main area on the right contains fields for Sensor (SOIL TH&TH-EC Sensor), Slave address (1), Slave new address (0-255), Register address (1: Humidity), Register type (4xxxx: Holding|Keep), Value type (Signed), Value scale (0.1), and Register value. There are 'Read' and 'Write' buttons next to the Slave address and Slave new address fields, and a 'Read' button next to the Register value field. A 'Log' section at the bottom right has a text area showing 'TX: FF 03 07 D0 00 01 91 59' and a 'Clear' button. On the left, there is an image of the sensor with a callout box that says 'Red: DC12V Black: GND Yellow: A+ Green: B-'.

2.2 Read temperature or humidity

COM: BPS: Parity:

Red: DC12V Black: GND Yellow: A+ Green: B-



1. Choose temp or humidity

Sensor:

Slave address:

Slave new address:

Register address:

Register type:

Value type:

Value scale:

Register value:

2. Read

3. Show value

TX: FF 03 07 D0 00 01 91 59
TX: 01 03 00 00 00 01 84 0a


Log:

3 Set parameters

3.1 Set ID

COM: BPS: Parity:

Red: DC12V Black: GND Yellow: A+ Green: B-



1. Enter new ID

Sensor:

Slave address:

Slave new address:

Register address:

Register type:

Value type:

Value scale:

Register value:

2. write

TX: FF 03 07 D0 00 01 91 59
TX: 01 03 00 00 00 01 84 0a

Log:

3.2 Set BPS

0=2400, 1=4800, 2=9600

COM: BPS: Parity:

Red: DC12V Black: GND Yellow: A+ Green: B-



1. Choose BPS register

Sensor:

Slave new address:

Register address:

Register type:

Value type:

Value scale:

Register value:

2. Enter BPS value
E.g., set 9600, enter 2

TX: FF 03 07 D0 00 01 91 59
TX: 01 03 00 00 00 01 84 0a


3. write

Log:

3.3 Set temperature or humidity calibration value

COM: BPS: Parity:

Red: DC12V Black: GND Yellow: A+ Green: B-



1. Choose temp or humidity offset

Sensor:

Slave address:

Slave new address:

Register address:

Register type:

Value type:

Value scale:

Register value:

2. Enter value

TX: FF 03 07 D0 00 01 91 59
TX: 01 03 00 00 00 01 84 0a

3. write

Log:

Output value=actual value + calibration value